

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Field Office
CD Artesia
FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018
Lease Serial No.
NMNM43744

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2		6. If Indian, Allottee or Tribe Name
1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		7. If Unit or CA/Agreement, Name and/or No.
2. Name of Operator OXY USA INCORPORATED Contact: DAVID STEWART E-Mail: david_stewart@oxy.com		8. Well Name and No. PLATINUM MDP1 34-3 FEDERAL COM 2H
3a. Address 5 GREENWAY PLAZA SUITE 110 HOUSTON, TX 77046-0521	3b. Phone No. (include area code) Ph: 432.685.5717	9. API Well No. 30-015-45227-00-X1
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 34 T23S R31E NWNW 400FNL 1062FWL 32.267086 N Lat, 103.770767 W Lon		10. Field and Pool or Exploratory Area COTTON DRAW-BONE SPRING
		11. County or Parish, State EDDY COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original APD
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

OXY USA Inc. respectfully requests to amend the APD with the following changes.

1. Move (410' west) and lower (+200') the proposed horizontal lateral. See attached for the Drill Plan, C-102 Plat, Directional Plan & plot with the details for the changes in the casing, cementing and mud programs.

2. Add optional 5-1/2" casing connection, see attached for detail sheet.

All previous COAs still apply.

NM OIL CONSERVATION
ARTESIA DISTRICT
NOV 14 2018

RECEIVED

14. I hereby certify that the foregoing is true and correct. Electronic Submission #441547 verified by the BLM Well Information System For OXY USA INCORPORATED, sent to the Carlsbad Committed to AFMSS for processing by PRISCILLA PEREZ on 10/30/2018 (19PP0260SE)	
Name (Printed/Typed) DAVID STEWART	Title REGULATORY ADVISOR
Signature (Electronic Submission)	Date 10/29/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By MUSTAFA HAQUE	Title PETROLEUM ENGINEER	Date 11/08/2018
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office Carlsbad

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

RNP 11-20-18

District I
1633 N. French Dr., Hobbs, NM 88240
Phone: (505) 393-6161 Fax: (505) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (505) 748-1283 Fax: (505) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-45227	Pool Code 13367	Pool Name Cotton Draw Bone Springs
Property Code 322245	Property Name PLATINUM MDP1 "34-3" FEDERAL COM	Well Number 2H
OGRIID No. 16696	Operator Name OXY USA INC.	Elevation 3424.2'

Surface Location

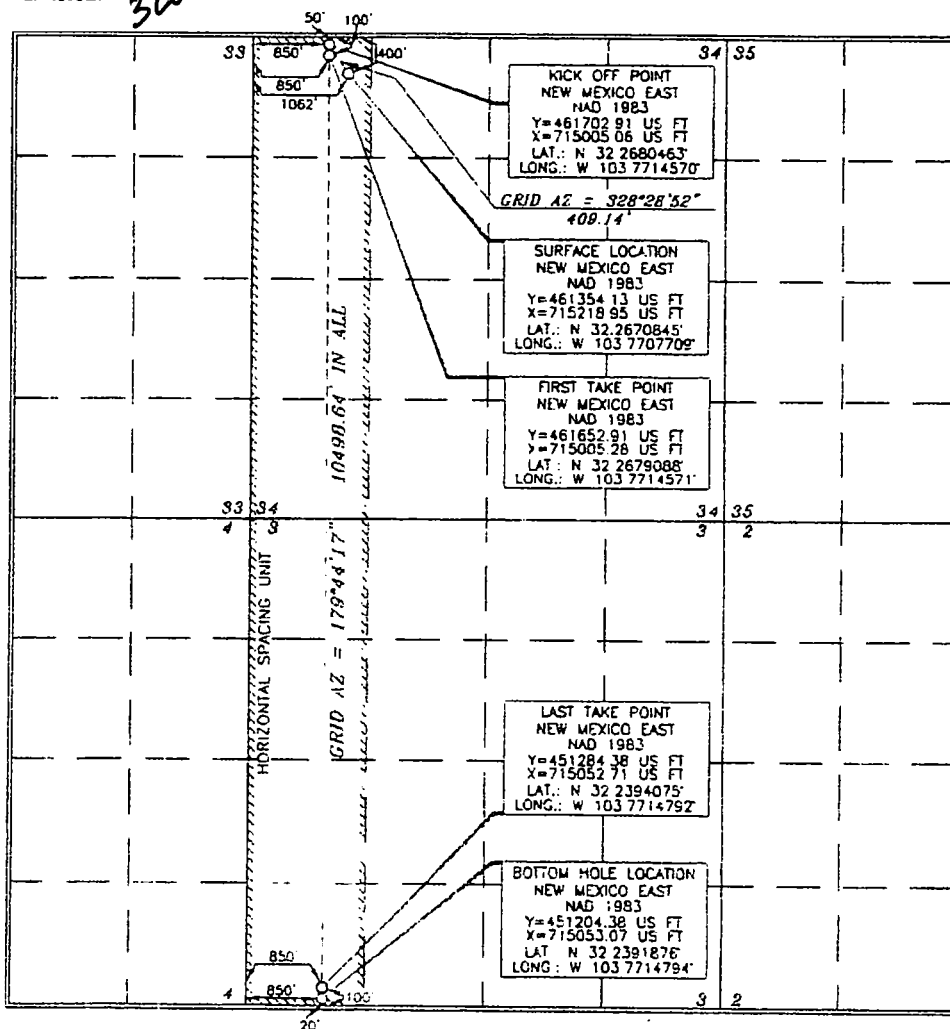
UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
D	34	23 SOUTH	31 EAST. N.M.P.M.		400'	NORTH	1062'	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
M	3	24 SOUTH	31 EAST. N.M.P.M.		20'	SOUTH	850'	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320	Y		

No allowance will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a cooperator, pooling order heretofore caused by the division.

David Stewart
Signature
David Stewart
Printed Name
david.stewart@oxy.com
E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from a true and correct survey made by me or under my supervision, and that the same is true and correct to the best of my belief.

Terry J. As...
Signature
Terry J. As...
Printed Name
Professional Surveyor

Terry J. As...
Signature
Terry J. As...
Printed Name
15079

WOP 180129WL-e (Rev. 5) (KA)

RWP 11-20-18

1. Geologic Formations

TVD of target	10276'	Pilot Hole Depth	N/A
MD at TD:	20544'	Deepest Expected fresh water:	545'

Delaware Basin

Formation	TVD - RKB	Expected Fluids
Rustler	545	
Salado	879	Brine
Castile	2,817	Brine
Lamar/Delaware	4,305	Brine
Bell Canyon	4,333	Oil/Gas
Cherry Canyon	5,220	Oil/Gas
Brushy Canyon	6,482	Losses
Bone Spring	8,148	Oil/Gas
1st Bone Spring	9,210	Oil/Gas
2nd Bone Spring	9,458	Oil/Gas

*H₂S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program

Primary Plan:

Hole Size (in)	Casing Interval		Csg. Size (in)	Weight (lbs)	Grade	Conn.	SF	SF Burst	Buoyant Body SF	Buoyant Joint SF
	From (ft)	To (ft)					Collapse		Tension	Tension
17.5	0	595	13.375	54.5	J-55	BTC	1.125	1.2	1.4	1.4
12.25	0	4355	9.625	43.5	L-80	BTC	1.125	1.2	1.4	1.4
8.5	0	20544	5.5	20	P-110	DQX	1.125	1.2	1.4	1.4
SF Values will meet or Exceed										

Contingency Plan:

Hole Size (in)	Casing Interval		Csg. Size (in)	Weight (lbs)	Grade	Conn.	SF	SF Burst	Buoyant Body SF	Buoyant Joint SF
	From (ft)	To (ft)					Collapse		Tension	Tension
17.5	0	595	13.375	54.5	J-55	BTC	1.125	1.2	1.4	1.4
12.25	0	4355	9.625	43.5	L-80	BTC	1.125	1.2	1.4	1.4
8.5	0	8500	7.625	26.4	HCL-80	SF (0 ft to 4000 ft) FJ (4000 ft to 8500 ft)	1.125	1.2	1.4	1.4
6.75	0	20544	5.5	20	P-110	DQX	1.125	1.2	1.4	1.4
SF Values will meet or Exceed										

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

*Oxy requests the option to run the 7.625" Intermediate II as a contingency string to be run only if severe hole conditions dictate an additional casing string necessary.

*Oxy requests the option to run production casing with DQX and/or SF TORQ connections to accommodate hole conditions or drilling operations.

Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement from Onshore Order #2 under the following conditions:

1. Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casings.
2. Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	Y
If yes, are the first three strings cemented to surface?	Y
Is 2 nd string set 100' to 600' below the base of salt?	Y
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Primary Plan:

Casing String	# Sks	Wt. (lb/gal)	Yld (ft3/sack)	H2O (gal/sk)	500# Comp. Strength (hours)	Slurry Description
Surface (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Surface (Tail)	636	14.8	1.33	6.365	5:26	Class C Cement, Accelerator
Intermediate (Lead)	1306	12.9	1.73	8.784	15:26	Pozzolan Cement, Retarder
Intermediate (Tail)	155	14.8	1.33	6.368	7:11	Class C Cement, Accelerator
Production 1st Stage (Lead)	662	13.2	1.38	6.692	17:50	Class H Cement, Retarder, Dispersant, Salt
Production 1st Stage (Tail)	2169	13.2	1.38	6.686	3:49	Class H Cement, Retarder, Dispersant, Salt
2nd Stage Production Lead Slurry to be pumped as Bradenhead Squeeze from surface, down the Production annulus.						
Production 2nd Stage (Tail)	915	12.9	1.872	10.11	21:54	Class C Cement, Accelerator
Casing String		Top (ft)		Bottom (ft)	% Excess	
Surface (Lead)		N/A		N/A	N/A	
Surface (Tail)		0		595	100%	
Intermediate (Lead)		0		3855	100%	
Intermediate (Tail)		3855		4355	20%	
Production 1st Stage (Lead)		6482		8148	5%	
Production 1st Stage (Tail)		8148		20544	5%	
Production 2nd Stage (Tail)		0		6482	25%	

Contingency Plan:

Casing String	# Sks	Wt. (lb/gal)	Yld (ft3/sack)	H2O (gal/sk)	500# Comp. Strength (hours)	Slurry Description
Surface (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Surface (Tail)	708	14.8	1.33	6.365	5:26	Class C Cement, Accelerator
Intermediate (Lead)	1202	12.9	1.88	10.130	14:22	Pozzolan Cement, Retarder
Intermediate (Tail)	155	14.8	1.33	6.370	12:45	Class C Cement, Accelerator
Intermediate II 1st Stage (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Intermediate II 1st Stage (Tail)	18	13.2	1.65	8.640	11:54	Class H Cement, Retarder, Dispersant, Salt
Intermediate II 2nd Stage (Tail Slurry) to be pumped as Bradenhead Squeeze from surface, down the Intermediate annulus						
Intermediate II 2nd Stage (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Intermediate II 2nd Stage (Tail)	425	12.9	1.92	10.410	23:10	Class C Cement, Accelerator
Production (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Production (Tail)	919	13.2	1.38	6.686	3:49	Class H Cement, Retarder, Dispersant, Salt
Casing String		Top (ft)		Bottom (ft)	% Excess	
Surface (Lead)		N/A		N/A	N/A	
Surface (Tail)		0		595	100%	
Intermediate (Lead)		0		3855	100%	
Intermediate (Tail)		3855		4355	20%	
Intermediate II 1st Stage (Lead)		N/A		N/A	N/A	
Intermediate II 1st Stage (Tail)		8148		8500	5%	
Intermediate II 2nd Stage (Lead)		N/A		N/A	N/A	
Intermediate II 2nd Stage (Tail)		0		8148	25%	
Production (Lead)		N/A		N/A	N/A	
Production (Tail)		8000		20544	20%	

*Contingency design will only be employed if Oxy elects to run 7.625" Intermediate II string.

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
12.25" Hole	13-5/8"	5M	Annular	✓	70% of working pressure
			Blind Ram	✓	250/5000psi
			Pipe Ram		
			Double Ram	✓	
			Other*		

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
Y	Are anchors required by manufacturer?
	A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015. See attached schematics.

BOP Break Testing Request

As per the agreement reached in the Oxy/BLM meeting on Feb 22, 2018, Oxy requests permission to allow BOP Break Testing under the following conditions:

- After a full BOP test is conducted on the first well on the pad.
- When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.
- Full BOP test will be required prior to drilling any production hole.

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From (ft)	To (ft)				
0	595	Water-Based Mud	8.6-8.8	40-60	N/C
595	4355	Saturated Brine-Based Mud	9.8-10.0	35-45	N/C
4355	20544	Water-Based or Oil-Based Mud	8.0-9.6	38-50	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Salt Water Clay, CACL2. Oxy will use a closed mud system.

What will be used to monitor the loss or gain of fluid?	PVT/MD Totco/Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing.	
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
No	Logs are planned based on well control or offset log information.
No	Drill stem test? If yes, explain
No	Coring? If yes, explain

Additional logs planned		Interval
No	Resistivity	
No	Density	
No	CBL	
Yes	Mud log	ICP - TD
No	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5130 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	163°F

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N	H2S is present
Y	H2S Plan attached

8. Other facets of operation

	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe. We plan to drill the two well pad in batch by section: all surface sections, intermediate sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well.	Yes
Will more than one drilling rig be used for drilling operations? If yes, describe. Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that Oxy would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the spudder rig.	Yes

Total estimated cuttings volume: 1861.4 bbls.

9. Company Personnel

Name	Title	Office Phone	Mobile Phone
Edgar Diaz-Aguirre	Drilling Engineer	713-552-8594	713-550-2699
Diego Tellez	Drilling Engineer Supervisor	713-350-4602	713-303-4932
Simon Benavides	Drilling Superintendent	713-522-8652	281-684-6897
John Willis	Drilling Manager	713-366-5556	713-259-1417

OXY

**PRD NM DIRECTIONAL PLANS (NAD 1983)
PLATINUM MDP1 34-3 FED COM
PLATINUM MDP1 34-3 FED COM 2H**

WB00

Plan: Permitting Plan

Standard Planning Report

09 October, 2018

Oxy

Planning Report

Database: HOPSPP
Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: PLATINUM MDP1 34-3 FED COM
Well: PLATINUM MDP1 34-3 FED COM 2H
Wellbore: WB00
Design: Permitting Plan

Local Co-ordinate Reference: Well PLATINUM MDP1 34-3 FED COM 2H
TVD Reference: Datum @ 3175.30ft
MD Reference: Datum @ 3175.30ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	PRD NM DIRECTIONAL PLANS (NAD 1983)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site	PLATINUM MDP1 34-3 FED COM			
Site Position:		Northing:	461,352.44 usft	Latitude: 32° 16' 1.502765 N
From:	Map	Easting:	714,923.95 usft	Longitude: 103° 46' 18.211063 W
Position Uncertainty:	50.00 ft	Slot Radius:	13.200 in	Grid Convergence: 0.30 °

Well	PLATINUM MDP1 34-3 FED COM 2H			
Well Position	+N/-S	1.69 ft	Northing:	461,354.13 usft
	+E/-W	295.02 ft	Easting:	715,218.95 usft
Position Uncertainty		2.00 ft	Wellhead Elevation:	0.00 ft
			Ground Level:	3,424.20 ft

Wellbore	WB00				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	3/26/2018	6.88	60.02	48,086

Design	Permitting Plan			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	180.94

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,863.00	0.00	0.00	6,863.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,362.99	10.00	328.48	7,360.45	37.10	-22.75	2.00	2.00	0.00	328.48	
9,218.31	10.00	328.48	9,187.59	311.74	-191.16	0.00	0.00	0.00	0.00	
9,718.30	0.00	179.74	9,685.04	348.84	-213.91	2.00	-2.00	0.00	180.00	PLATINUM_2H_KO
10,617.30	89.90	179.74	10,258.00	-223.11	-211.31	10.00	10.00	0.00	179.74	
20,544.62	89.89	179.74	10,276.00	-10,150.32	-166.22	0.00	0.00	0.00	180.00	PLATINUM_2H_BH

Oxy

Planning Report

Database: HOPSP
Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: PLATINUM MDP1 34-3 FED COM
Well: PLATINUM MDP1 34-3 FED COM 2H
Wellbore: WB00
Design: Permitting Plan

Local Co-ordinate Reference: Well PLATINUM MDP1 34-3 FED COM 2H
TVD Reference: Datum @ 3175.30ft
MD Reference: Datum @ 3175.30ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

Oxy

Planning Report

Database: HOPSPP
Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: PLATINUM MDP1 34-3 FED COM
Well: PLATINUM MDP1 34-3 FED COM 2H
Wellbore: WB00
Design: Permitting Plan

Local Co-ordinate Reference: Well PLATINUM MDP1 34-3 FED COM 2H
TVD Reference: Datum @ 3175.30ft
MD Reference: Datum @ 3175.30ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,863.00	0.00	0.00	6,863.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.74	328.48	6,900.00	0.20	-0.12	-0.20	2.00	2.00	0.00
7,000.00	2.74	328.48	6,999.95	2.79	-1.71	-2.76	2.00	2.00	0.00
7,100.00	4.74	328.48	7,099.73	8.35	-5.12	-8.27	2.00	2.00	0.00
7,200.00	6.74	328.48	7,199.22	16.88	-10.35	-16.71	2.00	2.00	0.00
7,300.00	8.74	328.48	7,298.31	28.36	-17.39	-28.07	2.00	2.00	0.00
7,362.99	10.00	328.48	7,360.45	37.10	-22.75	-36.72	2.00	2.00	0.00
7,400.00	10.00	328.48	7,396.90	42.58	-26.11	-42.15	0.00	0.00	0.00
7,500.00	10.00	328.48	7,495.38	57.38	-35.19	-56.80	0.00	0.00	0.00
7,600.00	10.00	328.48	7,593.87	72.18	-44.26	-71.45	0.00	0.00	0.00
7,700.00	10.00	328.48	7,692.35	86.99	-53.34	-86.10	0.00	0.00	0.00
7,800.00	10.00	328.48	7,790.83	101.79	-62.42	-100.75	0.00	0.00	0.00
7,900.00	10.00	328.48	7,889.31	116.59	-71.50	-115.41	0.00	0.00	0.00
8,000.00	10.00	328.48	7,987.79	131.40	-80.57	-130.06	0.00	0.00	0.00
8,100.00	10.00	328.48	8,086.27	146.20	-89.65	-144.71	0.00	0.00	0.00
8,200.00	10.00	328.48	8,184.75	161.00	-98.73	-159.36	0.00	0.00	0.00
8,300.00	10.00	328.48	8,283.23	175.80	-107.81	-174.02	0.00	0.00	0.00
8,400.00	10.00	328.48	8,381.71	190.61	-116.88	-188.67	0.00	0.00	0.00
8,500.00	10.00	328.48	8,480.19	205.41	-125.96	-203.32	0.00	0.00	0.00
8,600.00	10.00	328.48	8,578.67	220.21	-135.04	-217.97	0.00	0.00	0.00
8,700.00	10.00	328.48	8,677.15	235.02	-144.11	-232.62	0.00	0.00	0.00
8,800.00	10.00	328.48	8,775.64	249.82	-153.19	-247.28	0.00	0.00	0.00
8,900.00	10.00	328.48	8,874.12	264.62	-162.27	-261.93	0.00	0.00	0.00
9,000.00	10.00	328.48	8,972.60	279.42	-171.35	-276.58	0.00	0.00	0.00
9,100.00	10.00	328.48	9,071.08	294.23	-180.42	-291.23	0.00	0.00	0.00
9,200.00	10.00	328.48	9,169.56	309.03	-189.50	-305.89	0.00	0.00	0.00
9,218.31	10.00	328.48	9,187.59	311.74	-191.16	-308.57	0.00	0.00	0.00
9,300.00	8.37	328.48	9,268.23	322.85	-197.98	-319.57	2.00	-2.00	0.00
9,400.00	6.37	328.48	9,367.40	333.78	-204.68	-330.39	2.00	-2.00	0.00
9,500.00	4.37	328.48	9,466.96	341.75	-209.57	-338.28	2.00	-2.00	0.00
9,600.00	2.37	328.48	9,566.78	346.76	-212.64	-343.23	2.00	-2.00	0.00
9,700.00	0.37	328.48	9,666.75	348.79	-213.88	-345.24	2.00	-2.00	0.00
9,718.30	0.00	179.74	9,685.04	348.84	-213.91	-345.29	2.00	-2.00	0.00
9,800.00	8.17	179.74	9,766.47	343.02	-213.89	-339.48	10.00	10.00	0.00
9,900.00	18.17	179.74	9,863.72	320.27	-213.78	-316.73	10.00	10.00	0.00
10,000.00	28.17	179.74	9,955.53	280.97	-213.60	-277.44	10.00	10.00	0.00
10,100.00	38.17	179.74	10,039.13	226.33	-213.36	-222.81	10.00	10.00	0.00
10,200.00	48.17	179.74	10,111.97	158.00	-213.05	-154.49	10.00	10.00	0.00
10,300.00	58.17	179.74	10,171.84	78.06	-212.68	-74.57	10.00	10.00	0.00

Oxy Planning Report

Database: HOPSPP
Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: PLATINUM MDP1 34-3 FED COM
Well: PLATINUM MDP1 34-3 FED COM 2H
Wellbore: WB00
Design: Permitting Plan

Local Co-ordinate Reference: Well PLATINUM MDP1 34-3 FED COM 2H
TVD Reference: Datum @ 3175.30ft
MD Reference: Datum @ 3175.30ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,400.00	68.17	179.74	10,216.92	-11.06	-212.28	14.54	10.00	10.00	0.00
10,500.00	78.17	179.74	10,245.83	-106.66	-211.84	110.11	10.00	10.00	0.00
10,600.00	88.17	179.74	10,257.71	-205.82	-211.39	209.25	10.00	10.00	0.00
10,617.30	89.90	179.74	10,258.00	-223.11	-211.31	226.54	10.00	10.00	0.00
10,700.00	89.90	179.74	10,258.14	-305.81	-210.94	309.23	0.00	0.00	0.00
10,800.00	89.90	179.74	10,258.32	-405.81	-210.48	409.21	0.00	0.00	0.00
10,900.00	89.90	179.74	10,258.49	-505.81	-210.03	509.18	0.00	0.00	0.00
11,000.00	89.90	179.74	10,258.67	-605.81	-209.58	609.16	0.00	0.00	0.00
11,100.00	89.90	179.74	10,258.84	-705.81	-209.12	709.14	0.00	0.00	0.00
11,200.00	89.90	179.74	10,259.02	-805.81	-208.67	809.12	0.00	0.00	0.00
11,300.00	89.90	179.74	10,259.19	-905.81	-208.21	909.10	0.00	0.00	0.00
11,400.00	89.90	179.74	10,259.37	-1,005.81	-207.76	1,009.07	0.00	0.00	0.00
11,500.00	89.90	179.74	10,259.55	-1,105.81	-207.30	1,109.05	0.00	0.00	0.00
11,600.00	89.90	179.74	10,259.72	-1,205.80	-206.85	1,209.03	0.00	0.00	0.00
11,700.00	89.90	179.74	10,259.90	-1,305.80	-206.40	1,309.01	0.00	0.00	0.00
11,800.00	89.90	179.74	10,260.07	-1,405.80	-205.94	1,408.99	0.00	0.00	0.00
11,900.00	89.90	179.74	10,260.25	-1,505.80	-205.49	1,508.96	0.00	0.00	0.00
12,000.00	89.90	179.74	10,260.43	-1,605.80	-205.03	1,608.94	0.00	0.00	0.00
12,100.00	89.90	179.74	10,260.60	-1,705.80	-204.58	1,708.92	0.00	0.00	0.00
12,200.00	89.90	179.74	10,260.78	-1,805.80	-204.12	1,808.90	0.00	0.00	0.00
12,300.00	89.90	179.74	10,260.96	-1,905.80	-203.67	1,908.88	0.00	0.00	0.00
12,400.00	89.90	179.74	10,261.13	-2,005.79	-203.22	2,008.85	0.00	0.00	0.00
12,500.00	89.90	179.74	10,261.31	-2,105.79	-202.76	2,108.83	0.00	0.00	0.00
12,600.00	89.90	179.74	10,261.49	-2,205.79	-202.31	2,208.81	0.00	0.00	0.00
12,700.00	89.90	179.74	10,261.66	-2,305.79	-201.85	2,308.79	0.00	0.00	0.00
12,800.00	89.90	179.74	10,261.84	-2,405.79	-201.40	2,408.77	0.00	0.00	0.00
12,900.00	89.90	179.74	10,262.02	-2,505.79	-200.95	2,508.74	0.00	0.00	0.00
13,000.00	89.90	179.74	10,262.20	-2,605.79	-200.49	2,608.72	0.00	0.00	0.00
13,100.00	89.90	179.74	10,262.37	-2,705.79	-200.04	2,708.70	0.00	0.00	0.00
13,200.00	89.90	179.74	10,262.55	-2,805.79	-199.58	2,808.68	0.00	0.00	0.00
13,300.00	89.90	179.74	10,262.73	-2,905.78	-199.13	2,908.65	0.00	0.00	0.00
13,400.00	89.90	179.74	10,262.91	-3,005.78	-198.67	3,008.63	0.00	0.00	0.00
13,500.00	89.90	179.74	10,263.09	-3,105.78	-198.22	3,108.61	0.00	0.00	0.00
13,600.00	89.90	179.74	10,263.27	-3,205.78	-197.77	3,208.59	0.00	0.00	0.00
13,700.00	89.90	179.74	10,263.44	-3,305.78	-197.31	3,308.57	0.00	0.00	0.00
13,800.00	89.90	179.74	10,263.62	-3,405.78	-196.86	3,408.54	0.00	0.00	0.00
13,900.00	89.90	179.74	10,263.80	-3,505.78	-196.40	3,508.52	0.00	0.00	0.00
14,000.00	89.90	179.74	10,263.98	-3,605.78	-195.95	3,608.50	0.00	0.00	0.00
14,100.00	89.90	179.74	10,264.16	-3,705.77	-195.49	3,708.48	0.00	0.00	0.00
14,200.00	89.90	179.74	10,264.34	-3,805.77	-195.04	3,808.46	0.00	0.00	0.00
14,300.00	89.90	179.74	10,264.52	-3,905.77	-194.59	3,908.43	0.00	0.00	0.00
14,400.00	89.90	179.74	10,264.70	-4,005.77	-194.13	4,008.41	0.00	0.00	0.00
14,500.00	89.90	179.74	10,264.88	-4,105.77	-193.68	4,108.39	0.00	0.00	0.00
14,600.00	89.90	179.74	10,265.06	-4,205.77	-193.22	4,208.37	0.00	0.00	0.00
14,700.00	89.90	179.74	10,265.24	-4,305.77	-192.77	4,308.35	0.00	0.00	0.00
14,800.00	89.90	179.74	10,265.42	-4,405.77	-192.31	4,408.32	0.00	0.00	0.00
14,900.00	89.90	179.74	10,265.60	-4,505.77	-191.86	4,508.30	0.00	0.00	0.00
15,000.00	89.90	179.74	10,265.78	-4,605.76	-191.41	4,608.28	0.00	0.00	0.00
15,100.00	89.90	179.74	10,265.96	-4,705.76	-190.95	4,708.26	0.00	0.00	0.00
15,200.00	89.90	179.74	10,266.14	-4,805.76	-190.50	4,808.24	0.00	0.00	0.00
15,300.00	89.90	179.74	10,266.32	-4,905.76	-190.04	4,908.21	0.00	0.00	0.00
15,400.00	89.90	179.74	10,266.50	-5,005.76	-189.59	5,008.19	0.00	0.00	0.00
15,500.00	89.90	179.74	10,266.68	-5,105.76	-189.13	5,108.17	0.00	0.00	0.00
15,600.00	89.90	179.74	10,266.87	-5,205.76	-188.68	5,208.15	0.00	0.00	0.00

Oxy

Planning Report

Database: HOPSPP
Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: PLATINUM MDP1 34-3 FED COM
Well: PLATINUM MDP1 34-3 FED COM 2H
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Local Co-ordinate Reference: Well PLATINUM MDP1 34-3 FED COM 2H
TVD Reference: Datum @ 3175.30ft
MD Reference: Datum @ 3175.30ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
15,700.00	89.90	179.74	10,267.05	-5,305.76	-188.23	5,308.13	0.00	0.00	0.00
15,800.00	89.90	179.74	10,267.23	-5,405.75	-187.77	5,408.10	0.00	0.00	0.00
15,900.00	89.90	179.74	10,267.41	-5,505.75	-187.32	5,508.08	0.00	0.00	0.00
16,000.00	89.90	179.74	10,267.59	-5,605.75	-186.86	5,608.06	0.00	0.00	0.00
16,100.00	89.90	179.74	10,267.77	-5,705.75	-186.41	5,708.04	0.00	0.00	0.00
16,200.00	89.90	179.74	10,267.96	-5,805.75	-185.96	5,808.02	0.00	0.00	0.00
16,300.00	89.90	179.74	10,268.14	-5,905.75	-185.50	5,907.99	0.00	0.00	0.00
16,400.00	89.90	179.74	10,268.32	-6,005.75	-185.05	6,007.97	0.00	0.00	0.00
16,500.00	89.90	179.74	10,268.50	-6,105.75	-184.59	6,107.95	0.00	0.00	0.00
16,600.00	89.90	179.74	10,268.69	-6,205.74	-184.14	6,207.93	0.00	0.00	0.00
16,700.00	89.90	179.74	10,268.87	-6,305.74	-183.68	6,307.91	0.00	0.00	0.00
16,800.00	89.90	179.74	10,269.05	-6,405.74	-183.23	6,407.88	0.00	0.00	0.00
16,900.00	89.90	179.74	10,269.23	-6,505.74	-182.78	6,507.86	0.00	0.00	0.00
17,000.00	89.89	179.74	10,269.42	-6,605.74	-182.32	6,607.84	0.00	0.00	0.00
17,100.00	89.89	179.74	10,269.60	-6,705.74	-181.87	6,707.82	0.00	0.00	0.00
17,200.00	89.89	179.74	10,269.78	-6,805.74	-181.41	6,807.80	0.00	0.00	0.00
17,300.00	89.89	179.74	10,269.97	-6,905.74	-180.96	6,907.77	0.00	0.00	0.00
17,400.00	89.89	179.74	10,270.15	-7,005.74	-180.50	7,007.75	0.00	0.00	0.00
17,500.00	89.89	179.74	10,270.34	-7,105.73	-180.05	7,107.73	0.00	0.00	0.00
17,600.00	89.89	179.74	10,270.52	-7,205.73	-179.60	7,207.71	0.00	0.00	0.00
17,700.00	89.89	179.74	10,270.70	-7,305.73	-179.14	7,307.69	0.00	0.00	0.00
17,800.00	89.89	179.74	10,270.89	-7,405.73	-178.69	7,407.66	0.00	0.00	0.00
17,900.00	89.89	179.74	10,271.07	-7,505.73	-178.23	7,507.64	0.00	0.00	0.00
18,000.00	89.89	179.74	10,271.26	-7,605.73	-177.78	7,607.62	0.00	0.00	0.00
18,100.00	89.89	179.74	10,271.44	-7,705.73	-177.32	7,707.60	0.00	0.00	0.00
18,200.00	89.89	179.74	10,271.63	-7,805.73	-176.87	7,807.58	0.00	0.00	0.00
18,300.00	89.89	179.74	10,271.81	-7,905.72	-176.42	7,907.55	0.00	0.00	0.00
18,400.00	89.89	179.74	10,272.00	-8,005.72	-175.96	8,007.53	0.00	0.00	0.00
18,500.00	89.89	179.74	10,272.18	-8,105.72	-175.51	8,107.51	0.00	0.00	0.00
18,600.00	89.89	179.74	10,272.37	-8,205.72	-175.05	8,207.49	0.00	0.00	0.00
18,700.00	89.89	179.74	10,272.55	-8,305.72	-174.60	8,307.46	0.00	0.00	0.00
18,800.00	89.89	179.74	10,272.74	-8,405.72	-174.14	8,407.44	0.00	0.00	0.00
18,900.00	89.89	179.74	10,272.92	-8,505.72	-173.69	8,507.42	0.00	0.00	0.00
19,000.00	89.89	179.74	10,273.11	-8,605.72	-173.24	8,607.40	0.00	0.00	0.00
19,100.00	89.89	179.74	10,273.30	-8,705.71	-172.78	8,707.38	0.00	0.00	0.00
19,200.00	89.89	179.74	10,273.48	-8,805.71	-172.33	8,807.35	0.00	0.00	0.00
19,300.00	89.89	179.74	10,273.67	-8,905.71	-171.87	8,907.33	0.00	0.00	0.00
19,400.00	89.89	179.74	10,273.86	-9,005.71	-171.42	9,007.31	0.00	0.00	0.00
19,500.00	89.89	179.74	10,274.04	-9,105.71	-170.96	9,107.29	0.00	0.00	0.00
19,600.00	89.89	179.74	10,274.23	-9,205.71	-170.51	9,207.27	0.00	0.00	0.00
19,700.00	89.89	179.74	10,274.42	-9,305.71	-170.06	9,307.24	0.00	0.00	0.00
19,800.00	89.89	179.74	10,274.60	-9,405.71	-169.60	9,407.22	0.00	0.00	0.00
19,900.00	89.89	179.74	10,274.79	-9,505.71	-169.15	9,507.20	0.00	0.00	0.00
20,000.00	89.89	179.74	10,274.98	-9,605.70	-168.69	9,607.18	0.00	0.00	0.00
20,100.00	89.89	179.74	10,275.17	-9,705.70	-168.24	9,707.16	0.00	0.00	0.00
20,200.00	89.89	179.74	10,275.35	-9,805.70	-167.79	9,807.13	0.00	0.00	0.00
20,300.00	89.89	179.74	10,275.54	-9,905.70	-167.33	9,907.11	0.00	0.00	0.00
20,400.00	89.89	179.74	10,275.73	-10,005.70	-166.88	10,007.09	0.00	0.00	0.00
20,500.00	89.89	179.74	10,275.92	-10,105.70	-166.42	10,107.07	0.00	0.00	0.00
20,544.62	89.89	179.74	10,276.00	-10,150.32	-166.22	10,151.68	0.00	0.00	0.00

Oxy

Planning Report

Database: HOPSP
Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: PLATINUM MDP1 34-3 FED COM
Well: PLATINUM MDP1 34-3 FED COM 2H
Wellbore: WB00
Design: Permitting Plan

Local Co-ordinate Reference: Well PLATINUM MDP1 34-3 FED COM 2H
TVD Reference: Datum @ 3175.30ft
MD Reference: Datum @ 3175.30ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PLATINUM_2H_KOP - plan hits target center - Point	0.00	0.00	9,685.04	348.84	-213.91	461,702.95	715,005.05	32° 16' 4.967043 N	103° 46' 17.245144
PLATINUM_2H_BHL - plan hits target center - Point	0.00	0.00	10,276.00	-10,150.32	-166.22	451,204.40	715,052.74	32° 14' 21.075739 N	103° 46' 17.329621

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
6,863.00	6,863.00	0.00	0.00	STEP OUT DLS 2.00
7,362.99	7,360.45	37.10	-22.75	HOLD 10 DEG TANGENT
9,218.31	9,187.59	311.74	-191.16	DROP BACK TO VERTICAL DLS 2.00
9,718.30	9,685.04	348.84	-213.91	BUILD CURVE 10 DEG / 100
10,617.30	10,258.00	-223.11	-211.31	LANDING POINT
20,544.62	10,276.00	-10,150.32	-166.22	TD at 20544.62



Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: PLATINUM MDP1 34-3 FED COM
Well: PLATINUM MDP1 34-3 FED COM 2H
Wellbore: WB00
Design: Permitting Plan

WELL DETAILS: PLATINUM MDP1 34-3 FED COM 2H

+N/-S
0.00

+E/-W
0.00

Northing
461354.13

Ground Level: 3424.20

Easting

715218.95

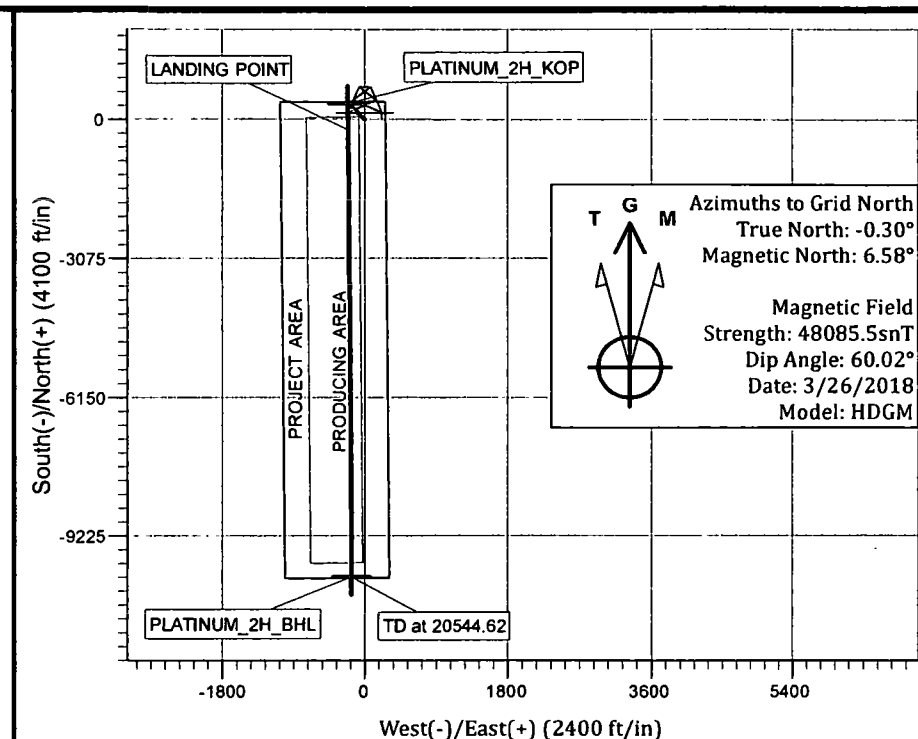
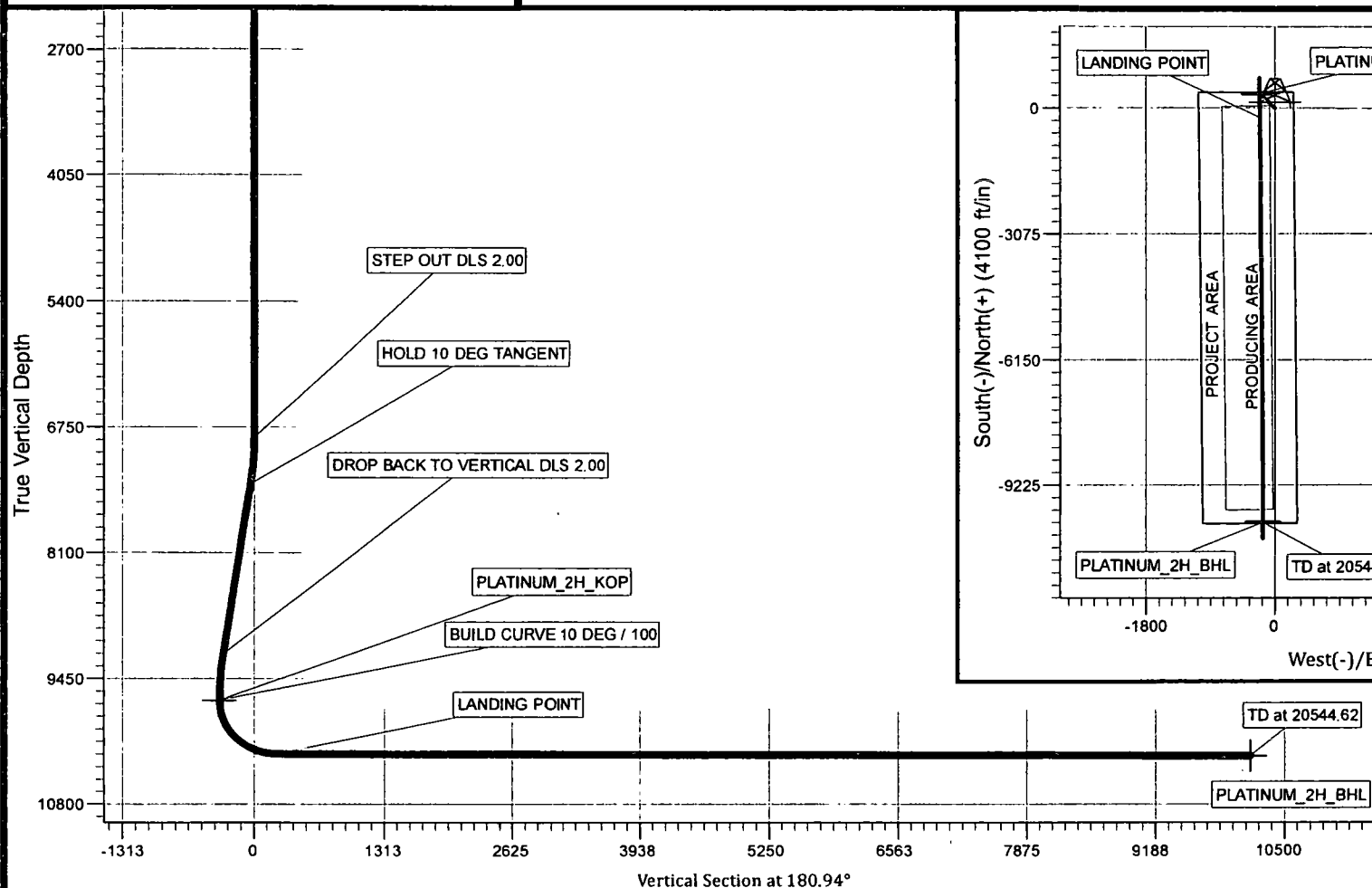
Latitude

32° 16' 1.504200 N

Longitude

103° 46' 14.775190 W

Datum @ 3450.70ft



PROJECT DETAILS: NM DIRECTIONAL PLANS (NAD 1983)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	6863.00	0.00	0.00	6863.00	0.00	0.00	0.00	0.00	0.00		STEP OUT DLS 2.00
3	7362.98	10.00	328.48	7360.45	37.10	-22.75	2.00	328.48	-36.72		HOLD 10 DEG TANGENT
4	9218.31	10.00	328.48	9187.59	311.74	-191.16	0.00	0.00	-308.57		DROP BACK TO VERTICAL DLS 2.00
5	9718.30	0.00	179.74	9685.04	348.84	-213.91	2.00	180.00	-345.29		BUILD CURVE 10 DEG / 100
6	10617.30	89.90	179.74	10258.00	-223.11	-211.31	10.00	179.74	226.54		LANDING POINT
7	20544.62	89.89	179.74	10276.00	-10150.32	-166.22	0.00	180.00	10151.68		TD at 20544.62

PERFORMANCE DATA

TMK UP SF TORQ™

5.500 in

20.00 lbs/ft

P110 HC

Technical Data Sheet

Tubular Parameters

Size	5.500	in	Minimum Yield	110.000	psi
Nominal Weight	20.00	lbs/ft	Minimum Tensile	125.000	psi
Grade	P110 HC		Yield Load	641.000	lbs
PE Weight	19.81	lbs/ft	Tensile Load	728.000	lbs
Wall Thickness	0.361	in	Min. Internal Yield Pressure	12.640	psi
Nominal ID	4.778	in	Collapse Pressure	12,780	psi
Drift Diameter	4.653	in			
Nom. Pipe Body Area	5.828	in²			

Connection Parameters

Connection OD	5.777	in
Connection ID	4.734	in
Make-Up Loss	5.823	in
Critical Section Area	5.875	in²
Tension Efficiency	90.0	%
Compression Efficiency	90.0	%
Yield Load In Tension	576.000	lbs
Min. Internal Yield Pressure	12.640	psi
Collapse Pressure	12.780	psi
Uniaxial Bending	83	/ 100 ft

Make-Up Torques

Min. Make-Up Torque	15.700	ft-lbs
Opt. Make-Up Torque	19.600	ft-lbs
Max. Make-Up Torque	21.600	ft-lbs
Operating Torque	29.000	ft-lbs
Yield Torque	36.000	ft-lbs

Printed on: February-22-2018

NOTE:

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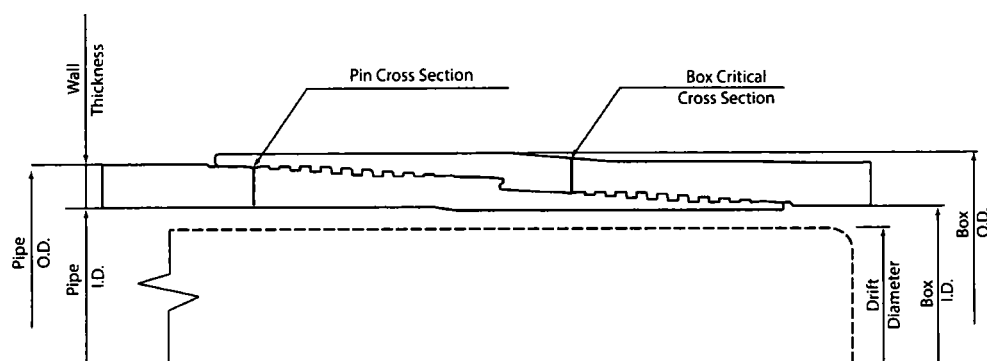
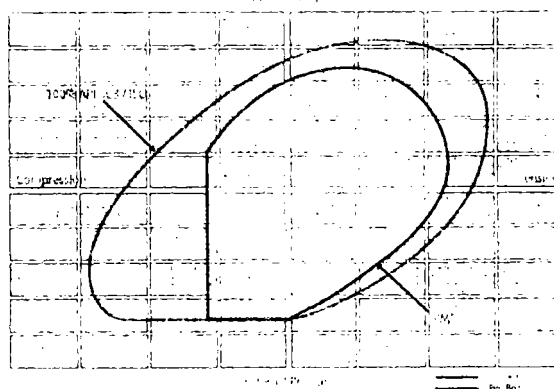
IPSCO

Nominal OD, (inch)	7.625
Wall Thickness, (inch)	0.328
Pipe Grade	L80 HC
Drift	Standard

Connection OD (inch)	7.79
Connection ID, (inch)	6.938
Make-Up Loss, (inch)	6.029
Connection Critical Area, (sq inch)	5.948
Yield Strength in Tension, (klbs)	533
Yield Strength in Compression, (klbs)	533
Tension Efficiency	89%
Compression Efficiency	89%
Min. Internal Yield Pressure, (psi)	6 020
Collapse Pressure, (psi)	3 910
Uniaxial Bending (deg/100ft)	42.7

Yield Torque, (ft-lb)	22 600
Minimum Make-Up Torque, (ft-lb)	15 000
Optimum Make-Up Torque, (ft-lb)	16 500
Maximum Make-Up Torque, (ft-lb)	18 200

PE Weight, (lbs/ft)	25.56
Nominal Weight, (lbs/ft)	26.40
Nominal ID, (inch)	6.969
Drift Diameter, (inch)	6.844
Nominal Pipe Body Area, (sq inch)	7.519
Yield Strength in Tension, (klbs)	601
Min. Internal Yield Pressure, (psi)	6 020
Collapse Pressure, (psi)	3 910

[illegible]